Foldct tSEGEOOt

```
    GTCCTTCCACCATGCACTCGCTGGGCTTCTTCTCTGTGGCGTGTTCTCTGCTCGCCGCTG   60
  1 ---------+---------+---------+---------+---------+---------+
    CAGGAAGGTGGTACGTGAGCGACCCGAAGAAGAGACACCGCACAAGAGACGAGCGGCGGAC  -
              M  H  S  L  G  F  F  S  V  A  C  S  L  L  A  A  A  -

    CGCTGCTCCCGGGTCCTCGCGAGGCGCCCGCCGCCGCCGCCTTCGAGTCCGGACTCG    120
 61 ---------+---------+---------+---------+---------+---------+
    GCGACGAGGGCCCAGGAGCGCTCCGCGGGCGGCGGCGGCGGCGAAGCTCAGGCCTGAGC  -
    L  L  P  G  P  R  E  A  P  A  A  A  A  A  F  E  S  G  L  D  -

    ACCTCTCGGACGCGGGAGCCCGACGCGGGGCCGAGGCCACGGCTTATGCAAGCAAAGATCTGG   180
121 ---------+---------+---------+---------+---------+---------+
    TGGAGAGCCTGCGCCCTCGGGCTGCGCCCCGGCTCCGGTGCCGAATACGTTCGTTTCTAGACC  -
    L  S  D  A  E  P  D  A  G  E  A  T  A  Y  A  S  K  D  L  E  -

    AGGAGCAGTTACGGTGTCTGTGTCCAGTGTGAGATGAACTCATGACTGTACTCTACCCAGAAT   240
181 ---------+---------+---------+---------+---------+---------+
    TCCTCGTCAATGCCAGACACAGGTCACATCTACTTGAGTACTGACATGAGATGGGTCTTA  -
    E  Q  L  R  S  V  S  S  V  D  E  L  M  T  V  L  Y  P  E  Y  -

    ATTGGAAAATGTACAAGTGTCAGCTAAGGAAAGGAGGCTGGCAACATAACAGAGAACAGG   300
241 ---------+---------+---------+---------+---------+---------+
    TAACCTTTTACATGTTCACAGTCGATTCCTTTCCTCCGACCGTTGTATTGTCTCTTGTCC  -
    W  K  M  Y  K  C  Q  L  R  K  G  G  W  Q  H  N  R  E  Q  A  -

    CCAACCTCAACTCAAGGACAGAAGAGACTATAAAATTGCTGCAGCACATTATAATACAG
```

MATCH WITH FIG. 1B

Fig. 1A

MATCH WITH FIG. 1A

```
301 --------+---------+---------+---------+---------+---------+ 360
    GGTTGGAGTTGAGTTCCTGTCTTCTCTGATATTTAAACGACGTCGTGTAATATTATGTC
    N  L  N  S  R  T  E  E  T  I  K  F  A  A  A  H  Y  N  T  E  -

    AGATCTTGAAAAGTATTGATAATGAGTGGAGAAAGACTCAATGCATGCCACGGGAGGTGT
361 --------+---------+---------+---------+---------+---------+ 420
    TCTAGAACTTTTCATAACTATTACTCACCTCTTTCTGAGTTACGGTTGCCCCTTCCACA
    I  L  K  S  I  D  N  E  W  R  K  T  Q  C  M  P  R  E  V  C  -

    GTATAGATGTGGGGAAGGAGTTTGGAGTCGCGACAAACACCTTCTTAAACCTCCATGTG
421 --------+---------+---------+---------+---------+---------+ 480
    CATATCTACACCCCTTCCTCAAACCTCAGCGCTGTTGTTGTGGAAGAAATTTGGAGGTACAC
    I  D  V  G  K  E  F  G  V  A  T  N  T  F  F  K  P  P  C  V  -

    TGTCCGTCTACAGATGTGGGGGGTGCTGCAATAGTGAGGGGCTGCAGTGCATGAACACCA
481 --------+---------+---------+---------+---------+---------+ 540
    ACAGGCAGATGTCTACACCCCCAACGACGTTATCACTCCCCGACGTACTTGTGGT
    S  V  Y  R  C  G  G  C  C  N  S  E  G  L  Q  C  M  N  T  S  -

    GCACGAGCTACCTCAGCAAGACGTTATTGAAATTACAGTGCCTCTCTCTCTCAAGGCCCCA
541 --------+---------+---------+---------+---------+---------+ 600
    CGTGCTCGATGGAGTCGTTCTGCAATAAACTTAATGTCACGGAGAGAGTTCCGGGGT
    T  S  Y  L  S  K  T  L  F  E  I  T  V  P  L  S  Q  G  P  K  -

    AACCAGTAACAATCAGTTTGCCAATCACACTTCCTGCCGATGCATGTCTAAACTGGATG
601 --------+---------+---------+---------+---------+---------+ 660
    TTGGTCATTGTTAGTCAAAACGGTTAGTGTGAAGGACGGCTACGTACAGATTGACCTAC
    P  V  T  I  S  F  A  N  H  T  S  C  R  C  M  S  K  L  D  V  -
```

MATCH WITH FIG. 1C

Fig. 1B

MATCH WITH FIG. 1B

```
661  TTTACAGACAAGTTCATTCCATTATTAGACGTTCCCTGCCAGCAACACTACCACAGTGTC  720
     ----+----+----+----+----+----+----+----+----+----+----+----+
     AAATGTCTGTTCAAGTAAGGTAATAATCTGCAAGGGACGGTCGTTGTGATGGTGTCACAG
      Y  R  Q  V  H  S  I  I  R  R  S  L  P  A  T  L  P  Q  C  Q  -

721  AGGCAGCGAACAAGACCTGCCCCACCAATTACATGTGGAATAATCACATCTGCAGATGCC  780
     ----+----+----+----+----+----+----+----+----+----+----+----+
     TCCGTCGCTTGTTCTGGACGGGGTGGTTAATGTACACCTTATTAGTGTAGACGTCTACGG
      A  A  N  K  T  C  P  T  N  Y  M  W  N  N  H  I  C  R  C  L  -

781  TGGCTCAGGAAGATTTTATGTTTCCTCGGATGCTGGAGATGACTCAACAGATGGATTCC   840
     ----+----+----+----+----+----+----+----+----+----+----+----+
     ACCGAGTCCTTCTAAAATACAAAGGAGCCTACGACCTCTACTGAGTTGTCTACCTAAGG
      A  Q  E  D  F  M  F  S  S  D  A  G  D  D  S  T  D  G  F  H  -

841  ATGACATCTGTGGACCAAACAAGGAGCTGGATGAAGAGACCTGTCAGTGTGTCTGCAGAG  900
     ----+----+----+----+----+----+----+----+----+----+----+----+
     TACTGTAGACACCTGGTTTGTTCCTCGACCTACTTCTCTGGACAGTCACACAGACGTCTC
      D  I  C  G  P  N  K  E  L  D  E  E  T  C  Q  C  V  C  R  A  -

901  CGGGGCTTCGGCCTGCCAGCTGTGGACCCCACAAAGAACTAGACAGAAACTCATGCCAGT  960
     ----+----+----+----+----+----+----+----+----+----+----+----+
     GCCCCGAAGCCGGACGGTCGACACCTGGGGTGTTTCTTGATCTGTCTTTGAGTACGGTCA
      G  L  R  P  A  S  C  G  P  H  K  E  L  D  R  N  S  C  Q  C  -

961  GTGTCTGTAAAAACAAACTCTTCCCCAGCCAATGTGGGGCCAACCGAGAATTTGATGAAA  1020
     ----+----+----+----+----+----+----+----+----+----+----+----+
     CACAGACATTTTTGTTTGAGAAGGGGTCGGTTACACCCGGTTGGCTCTTAAACTACTTT
```

MATCH WITH FIG. 1D

Fig.1C

MATCH WITH FIG. 1C

```
                    V   C   K   N   K   L   F   P   S   Q   C   G   A   N   R   E   F   D   E   N   -

      ACACATGCCAGTGTGTATGTAAAAGAACCTGCCCCAGAAATCAACCCCTAAATCCTGGAA
      ----+----+----+----+----+----+ 1080
      TGTGTACGGTCACACATACATTTCTTGGACGGGTCTTTAGTGGGGATTTAGGACCTT
                    T   Q   C   V   C   K   R   T   C   P   R   N   Q   P   L   N   P   G   K   -

1021

      AATGTGCCTGTGAATGTACAGAAAGTCCACAGAAATGCTTGTTAAAAGGAAAGAAGTTCC
      ----+----+----+----+----+----+ 1140
      TTACACGGACACTTACATGTCTTTCAGGTGTCTTACGAACAATTTCCTTCTTCAAGG
                    C   A   C   E   C   T   E   S   P   Q   K   C   L   L   K   G   K   K   F   H   -

1081

      ACCACCAAACATGCAGCTGTTACAGACGGCCATGTACGAACCGCCAGAAGGCTTGTGAGC
      ----+----+----+----+----+----+ 1200
      TGGTGGTTTGTACGTCGACAATGTCTGCCGGTACATGCTTGGCGGTCTTCCGAACACTCG
                    H   Q   T   C   S   C   Y   R   R   P   C   T   N   R   Q   K   A   C   E   P   -

1141

      CAGGATTTTCATATAGTGAAGAAGTGTGTCGTTGTGTCCCTTCATATTGGCAAAGACCAC
      ----+----+----+----+----+----+ 1260
      GTCCTAAAGTATATCACTTCTTCACACAGCAACACAGGAAGTATAACCGTTTCTGGTG
                    G   F   S   Y   S   E   E   V   C   R   C   V   P   S   Y   W   Q   R   P   Q   -

1201

      AAATGAGCTAAGATTGTACTGTTTCCAGTTCATCGATTTTCTATTATGGAAAACTGTGT
```

MATCH WITH FIG. 1E

Fig. 1D

MATCH WITH FIG. 1D

```
1261  -----+----+----+----+----+----+----+----+----+----+  1320
      TTTACTCGATTCTAACATGACAAAGGTCAAGTAGCTAAAAGATAATACCTTTGACACA
                    M  S  *

      TGCCACAGTAGAACTGTCTGTGAACAGAGAGACCCTTGTGGGTCCATGCTAACAAAGACA
1321  -----+----+----+----+----+----+----+----+----+----+  1380
      ACGGTGTCATCTTGACAGACACTTGTCTCTCGGGAACACCCAGTACGATTGTTCTGT

      AAAGTCTGTCTTTCCTGAACCATGTGGATAACTTTACAGAAATGGACTGGAGCTCATCTG
1381  -----+----+----+----+----+----+----+----+----+----+  1440
      TTTCAGACAGAAAGGACTTGGTACACCTATTGAAATGTCTTTACCTGACCTCGAGTAGAC

      CAAAAGGCCCTCTGTAAAGACTGGTTTTCTGCCAATGACCAAACAGCCAAGATTTCCTC
1441  -----+----+----+----+----+----+----+----+----+----+  1500
      GTTTTCCGGAGAACATTCTGACCAAAGACGGTTACTGGTTGTCGGTTCTAAAGGAG

      TTGTGATTCTTAAAAGAATGACTATATAATTTATTCCACTAAAAATATTGTTTCTGC
1501  -----+----+----+----+----+----+----+----+----+----+  1560
      AACACTAAAGAAATTTCTTACTGATATATTAAATAAGGTGATTTTATACAAAGACG

      ATTCATTTTTATAGCAACAACAATTGGTAAAACTCACTGTGATCAATATTTTATATCAT
1561  -----+----+----+----+----+----+----+----+----+----+  1620
      TAAGTAAAAAATATCGTTGTTGTTAACCATTTGAGTGACACTAGTTATAAAAATATAGTA

      GCAAAATATGTTAAATAAAAATGAAAATTGTATTTATAAAAAAAAAAAAAAA
1621  -----+----+----+----+---  1674
      CGTTTTATACAAATTTTATTTTACTTTTAACATAAATATTTTTTTTTTTTTTT
```

Fig. 1E

```
     1                                                              50
Pdgfa  .MRTLACLLL LGCGYLAHVL AEEAEIPREV IERLARSQIH SIRDLQRLLE
Pdgfb  MNRCWA.LFL SLCCYLRLVS AEGDPIPEEL YEMLSDHSIR SFDDLQRLLH
Vegf   ......MNFLL SWVHWSLALL LY......... .......... .LHHAKWSQA
Vegf2  .......MTV LYPEYWKMYK CQ......... .......... .LRKGGWQHN

     51                                                            100
Pdgfa  IDSVGSEDSL DTSLRAHGVH ATKHVPEKRP LPIRRKRSI. ......EEAVP
Pdgfb  GDP.GEEDGA ELDLNMTRSH SGGELES... .LARGRRSLG SLTIAEPAMI
Vegf   APMAE..... ......GGGQ NHHEVVKFMD .VYQR..... ..........
Vegf2  REQANLNSRT EETIKFAAAH YNTEILKSID NEWRK..... ..........

     101                                                           150
Pdgfa  AVCKTRTVIY EIPRSQVDPT SANFLIWPPC VEVKRCTGCC NTSSVKCQPS
Pdgfb  AECKTRTEVF EISRRLIDRT NANFLVWPPC VEVQRCSGCC NNRNVQCRPT
Vegf   SYCHPIETLV DIFQEYPDEI ..EYIFKPSC VPLMRCGGCC NDEGLECVPT
Vegf2  TQCMPREVCI DVGKEFGVAT ..NTFFKPPC VSVYRCGGCC NSEGLQCMNT

     151                                                           200
Pdgfa  RVHHRSVKVA KVEYVRKKPK LKEVQVRLEE HLECAC..... AT.......
Pdgfb  QVQLRPVQVR KIEIVRKKPI FKKATVTLED HLACKC..... ETVAAARPVT
Vegf   EESNITMQIM RIK.PH..QG QHIGEMSFLQ HNKCECRPKK DRARQEKKSV
Vegf2  STSYLSKTLF EIT.VPLSQG PKPVTISFAN HTSCRCMSKL DVYRQVHSII
```

Fig. 2A

```
201
Pdgfa  ....TSLNPD YREEDTDVR. .......... .......... ..........
Pdgfb  RSPGSQEQR AKTPQTRVTI RTVRVRRPPK GKHRKFKHTH DKTALKETLG
Vegf   RGK...... .GKGQKRKRK KSRYKSWSVY VGARCCLMPW SLPGPHP....
Vegf2  RRSLPATLPQ CQAANKTCPT NYMWNNHICR CLAQEDFMFS SDAGDDSTDG
                                                         250

251
Pdgfa  .......... .......... .......... .......... ..........
Pdgfb  A......... .......... .......... .......... ..........
Vegf   ...CGP.... .......... ......CSE  RRKHLFVQDP QTCKCSCKNT
Vegf2  FHDICGPNKE LDEETCQCVC RAGLRPASCG PHKEL...DR NSCQCVCKNK
                                                         300

301
Pdgfa  .......... .......... .......... .......... ..........
Pdgfb  .......... .......... .......... .......... ..........
Vegf   ..DSRCKARQ LELNERTCRC DKPRR.....
Vegf2  LFPSQCGANR .EFDENTCQC VCKRTCPRNQ PLNPGKCACE CTESPQKCLL
                                                         350

351
Pdgfa  .......... .......... .......... ..........
Pdgfb  .......... .......... .......... ..........
Vegf   .......... .......... .......... ..........
Vegf2  KGKKFHHQTC SCYRRPCTNR QKACEPGFSY SEEVCRCVPS YWQRPQMS
                                                         398
```

Fig. 2B

| | 1 | 2 | 3 | 4 | 5 |

200 kd ▶

97 kd ▶

69 kd ▶

45 kd ▶

— 38-40 kd

30 kd ▶

— 36-38 kd

21 kd ▶

14 kd ▶
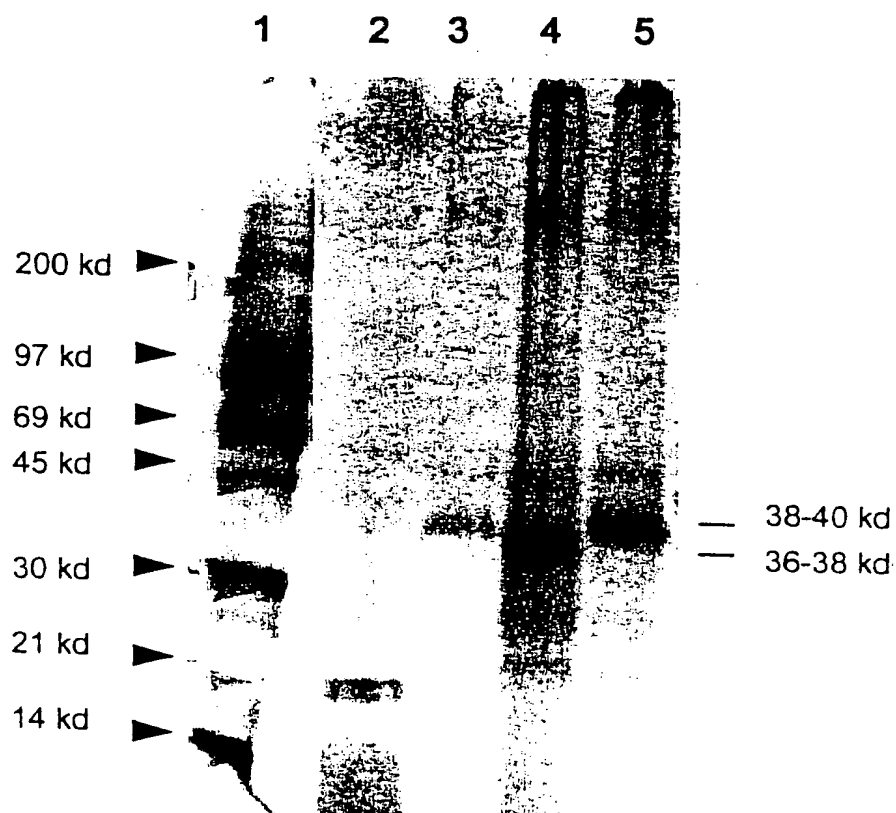
Lane 1:   14-C and rainbow M.W. marker
Lane 2:   FGF control
Lane 3:   VEGF2 (M13-reverse $ forward primers)
Lane 4:   VEGF2 (M13-reverse & VEGF-F4 primers)
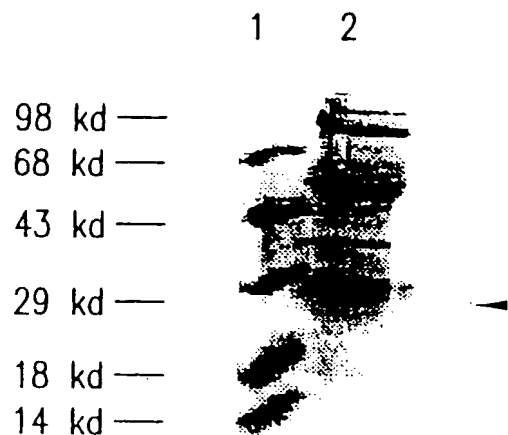Lane 5:   VEGF2 (M13-reverse & VEGF-F5 primers)

Fig. 3

reducing gel

M 1 2 M 3 4 M

210 —
98 —
67 —
45 —
30 —
21 —
14 —

Lane M: Marker
Lane 1: vector Cytoplasm
Lane 2: vector medium
Lane 3: VEGF2 Cytoplasm
Lane 4: VEGF2 medium

non-reducing gel

M 1 M 2 M

98 —
67 —
45 —
30 —
21 —
14 —

Lane M   Marker
Lane 1   vector medium
Lane 2   VEGF2 medium

Fig. 4

1   2

98 kd —

68 kd —

43 kd —

29 kd —

18 kd —

14 kd —
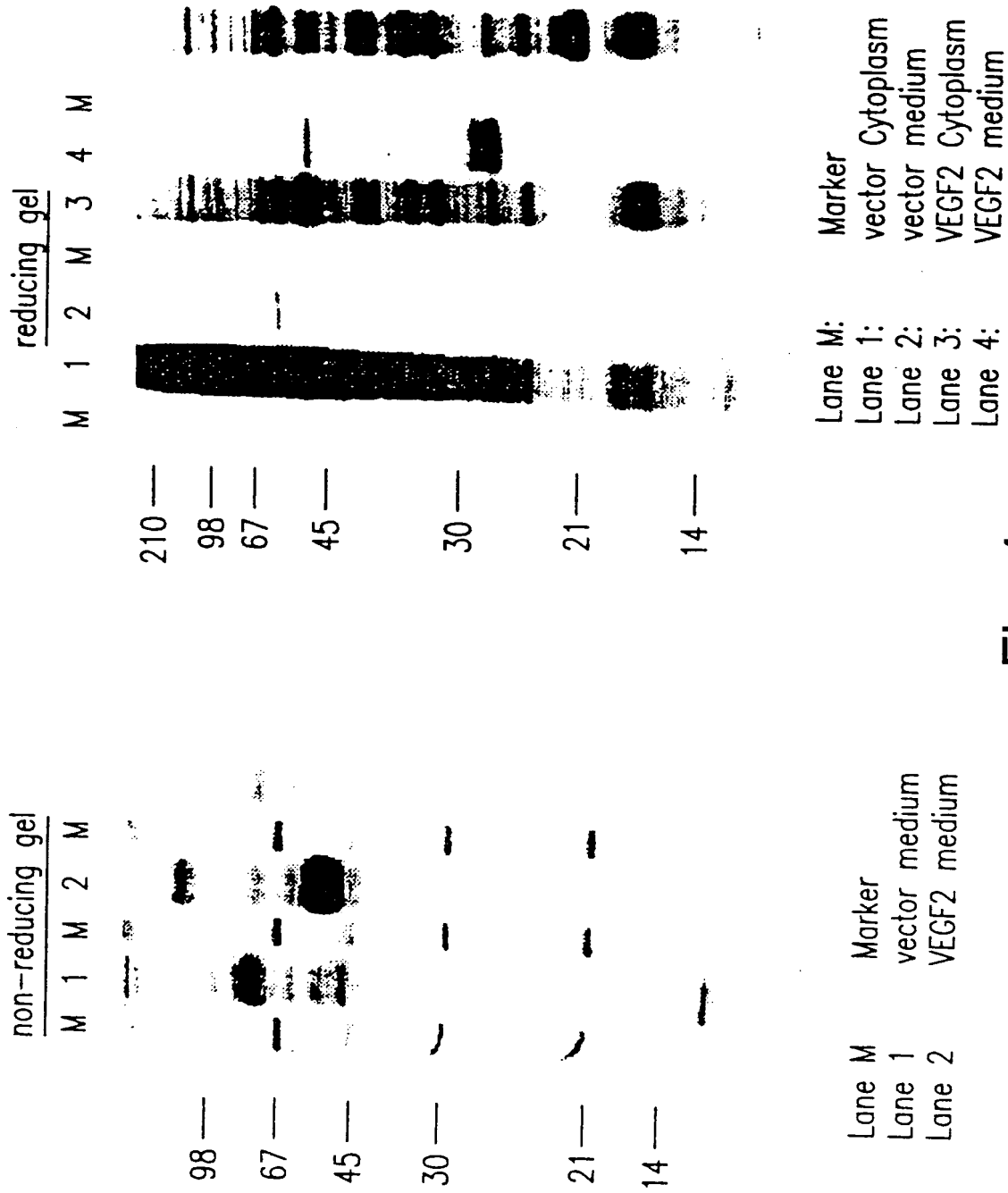
Lane 1:   Molelular weight marker
Lane 2:   Precipitates containing VEGF2.

Fig. 5

M + β−ME   − β−ME

98 kd —
68 kd —
43 kd —
29 kd —
18 kd —
14 kd —

Fig. 6

Fig. 7

Fig. 8

Fig. 9